ACCESSION NR: AP4033704

5/0148/64/000/004/0124/0128

AUTHOR: Grdina, Yu. V.; Sofroshenkov, A. F.; Koval', L. A.

TITIE: Resistance of Combined Coatings During Hydroabrasive Wear

SOURCE: IVUZ. Chernaya metallurgiya, no. 4, 1964, 124-128

TOPIC TAGS: diffusion layer, heat treatment, hydroabrasive wear, calorization, titanization, chrome plating, siliconizing

ABSTRACT: In an earlier paper the authors investigated the properties of diffusion layers produced by combing chemical treatment with heat treatment, and they continue their research by reporting additional test results. Sleeves, checkers and segments were exposed to hydroabrasive wear. The treatment consisted of calorizing (950-10000 C) for 12 hrs, titanizing (1080 C) for 10 hrs., siliconizing (1080-1100 C) for 11 hrs. and chromizing (1150 C) for 8 hrs. All parts were thank, degreased and nitrided at 500-550-520 C for 70 hrs. The authors found that wear resistance depended not only on microhardness but also on microstructure, brittleness of the layer and test conditions in which pulpand coal lines as well as hot steel runners were simulated. Although the method

Card 1/2

ACCESSION NR: AP4033704

appears somewhat complicated, it is recommended for many parts exposed to hydroabrasive wear. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical

Institute)

SUBMITTED: 08Jun63

DATE ACQ: OTMAy64

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SUB CODE: MM

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OTHER: 000

Card 2/2

GRDINA, Yu.V.; KREPYSHEVA, L. B.

Top boundary temperature of flake occurrence in steel. Izv. vys. ucheb. zav.; chern. met. 7 no.6:125-129 '64. (MIRA 17:7)

1. Sirbirskiy metallurgicheskiy institut.

GRDINA, Yu.V.; GLIKMAN, Ye.E.

Mechanism of the effect of aluminum and phosphorous on the tendency to brittle failure in high phosphorous steel. Izv. vys. ucheb. zav.; chern. met. 7 no.12:;06-111 '64 (MIRA 18:1)

1. Sibirskiy metallurgicheskiy institut.

L 3437-66 EWT(m)/EWP(1)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD/JG/0S ACCESSION NR: AT5024874 UR/0000/65/000/000/0082/0088 42

AUTHOR: Grdina, Yu. V.; Gordeyeva, L. T.

TITLE: Diffusion coating of steel from a gaseous medium during induction heating with high-frequency currents

SOURCE: AN UkrSSR. Institut problem materialovedeniya. Diffuzionnyye pokrytiya na metallakh (Diffusion coatings on metals). Kiev, Naukova dumka, 1965, 82-88

TOPIC TAGS: induction furnace, steel, metal coating, chloride, compound, diffusion coating

ABSTRACT: The diffusion coating of armco iron, carbon steel (0.64% C) and 38KhMA steel during their induction heating was investigated. Cr, Al, Si, W, Mo, B, as well as Ti with subsequent boronizing were used as the impregnating materials. The experimental setup is shown in Fig. 1 of the Enclosure. The specimens were heated in an airtight tube through which chlorides of the coating metals were passed. Gaseous chlorine was produced by interacting conc. H<sub>2</sub>SO<sub>4</sub> with KMnO<sub>4</sub>, purified and dried, and admitted to the furnace containing a boat with the metal powder. The chlorides forming as a result of the high-frequency current heating of the metals in a stream of chlorine then were passed around the specimen and

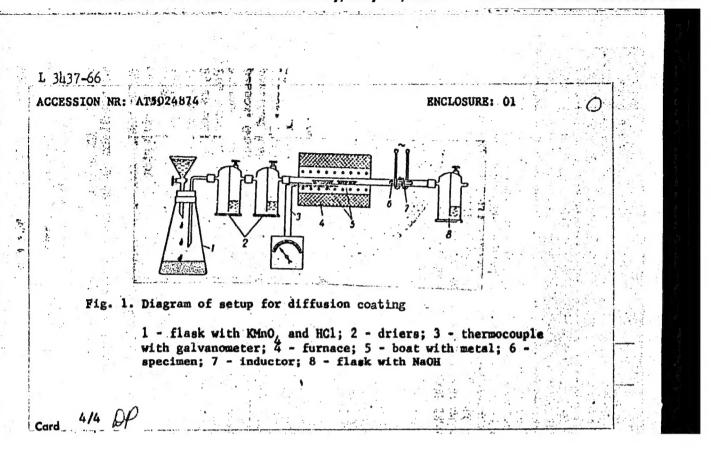
ACCESSION NR: AT5024874

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thereupon eliminated from the setup via a NaOH flask where the chlorine was absorbed. This setup was employed to perform the siliconizing, calorizing, chromizing, tungstenizing, molybdenizing, boronizing, and titanizing of the specimens, with subsequent determination of the microhardness of the case layer and base metal in each case. The gaseous chlorides formed at 600-650°C for Al and at 940-960°C for the other metals. Heating of the specimen was by the intermittent method with an overall exposure of 8-30 sec at 1000-1100°C (and in isolated cases, higher). The temperature of formation of the chlorides in the furnace was measured with a chromel-alumel thermocouple and the heating temperature of the specimens, with an OPPIR-09 optical pyrometer. The specimens were cooled in the atmosphere of chlorine and chlorides. It was thus possible to definitely establish the feasibility of the diffusion coating of iron and steels with Al, Si, Mo, Cr, W, Ti, and B from a gaseous medium -- chlorides of these metals -- on induction heating with high frequency currents. A comparison of case depths showed that the rate of coating of steel with metals from gaseous media on heating with high-frequency currents is several hundred times as high as on heating in a conventional furnace with the microhardness of the diffusion layer remaining within the normal limits. Orig. art. has: 6 figures

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L 7656-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD/GS ACC NR: AT5024875 SOURCE CODE: UR/0000/65/000/000/0105/0115 Grdina, Yu. V.; Gordeyeva, L. T.; Timonina, L. T. Institute of Metalworking Problems AN UkrSSR (Institut problem materialovedeniya AN UkrSSR) TITLE: Case hardening of titanium by carburizing and nitriding with high-frequency heating SOURCE: AN UkrSSR. Institut problem materialovedeniya. Diffuzionnyye pokrytiya na metallakh (Diffusion coatings on metals). Kiev, Naukova dumka, 1965, 109-115 44.5% TOPIC TAGS: hardening, case hardening, titanium case hardening, titanium carburizing, titanium nitriding, titanium carbonitriding ABSTRACT: Case hardening of titanium and VT-4 and VT-6 titanium alloy by carburizing or nitriding has been investigated. Cylindrical specimens 3 mm in diameter and 200 mm long, and disks 40 mm in diameter and 10 mm thick were carburized by painting a silvery graphite paste, hf heating up to 850-1100C, and holding for 10-30 min in a helium atmosphere. A case 0.25 mm deep was obtained in 15 min on specimens 3 mm in diameter; its microhardness was 1780 HV50, dropping to 400 HV50 at a depth of 0.4 mm. The disk specimens were tested for wear resistance in dry friction at 220 rpm and a load of 750 n. Disks carburized for 15 min showed no wear after 4-hr tests. Disks carburized for a shorter or longer time had much lower wear resistance. Nitriding produced similar results. The specimens were nitrided for 6, 10, 15, or 20 min at 850-1100C in a nitrogen-Card 1/2

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ou dan/mm². No se was found to se of nitrided	nder pressure of a ained by holding f wear was observe be much more oxi alloy specimens a brig. art. has: 7	d after a 4- dation resis	hr wear-resi	stance test.	The nitrided The weight of the
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EMP(e)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c) MJW/JD UR/0129/65/000/005/0050/0052 ACCESSION NR: AP5013161 669.295:669.3 Grdina, Yu. V.; Gordeyeva, L. T.; Timonina, L. G.; Romashova, T. A. AUTHOR: Diffusion impregnation of titanium alloys with copper SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 5, 1965, 50-52 TOPIC TAGS: titanium alloy, alloy impregnation, copper impregnated alloy, impregnated layer property/VT3 titanium alloy, VT5 titanium alloy ABSTRACT: A method of impregnation with copper of VT3 [U.S. RS 140] and VT5 titanium [4.0-5.0% Al, 1.0-2.0% Mn] alloys by pack cementation is described. Rolls 10 mm in diameter and rods with 3-mm diameter or cross section were descaled, packed in a mixture of 30-40% copper chips, 5-6% copper powder \$50-60% crushed refractory clay, and 1% ammonium chloride, and held for 1-3 hr at 750-950C. A copper-impregnated layer 0.1-0.4 mm, thick with a maximum microhardness of 1500 was obtained by this method. By a modified method, holding paste-coated specimens at 950C for 3 hr in an argon atmosphere to copper-impregnated layer 0.3 mm thick with a microhardness in an argon atmosphere; va copper-impregnated 1200 vas obtained. The layer consisted of TiCu3, Ti2Cu, Ti3Cu and α-Ti phases Card 1/2

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L 527C4-65 ACCESSION NR: AP5013 In wear-resistance te		75 ka undan condi	tions of dry friction	4
the copper-impregnate	i rolls exhibited no	weight loss, whe	reas the untreated rol	16
paired with hardened 4 figures.	UIZA tool steel lost	c mb to 5.3 g ber	roit. Orig. arc. nas	S]
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GRDINA, Yu.V.; TOV, G.M.; GONGHAROVA, S.G.

Electron microscopy of the Gl3 steel. Izv.vys.ucheb.zav.; chern.met. 8 no.6:131-136 '65. (MIRA 18:8)

1. Sibirskiy metallurgicheskiy institut.

GPDINA, Ye.V. HOTOV, A.V.

Artificial reproduction of the defect of contact fatigue in specimens cut out of rail heads. Izv. vys. ucheb. zav.; chern.met. 8 no.61148-150 65. (MIRA 18:8)

l. Sibirskly motallurgicheskiy institut.

(MIRA 18:8)

GRDINA, Yu.V.; CLIRMAN, Y.E.; TOV, G.M.

Arittleness of high-silicon ferritic steel during tempering. Izv.vys. ucheb.zav.; chern.mat. 8 no.8:108-113 '65.

1. Sibirskiy metallurgichaskiy institut.

GRDINA, Yu.V.; GORDIN, O.V.

Dependence of impact toughness in rail steel on the finishing temperature. Izv.vys.ucheb.zav.; chern.met. 8 no.8:114-117 '65. (MIRA 18:8)

1. Sibirskiy metallurgicheskiy institut.

L 12999-66 EUT EVT(m)/EVP(w)/T/EVP(t)/EVP(b)/EWA(c) SOURCE CODE: UR/0148/65/000/012/0101/0107 AUTHOR: Grdina, Yu. V.; Glikman, Ye. E.; Piguzov, Yu. V. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut); Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) 16.55 TITLE: Study of reversible temper brittleness of steel SOURCE: IVUZ. Chernaya metallurgiya, no. 12, 1965, 101-107 TOPIC TAGS: Teversible temper brittleness, brittleness, steel, internal friction, phosphorus, metal grain structure ABSTRACT: The discovery (M. G. Lozinskiy, A. Ye. Fedorovskiy, Izvestiya AN SSSR, OTN, 6, 1958, and others) of the relationship between internal friction and the processes of the embrittlement of technically pure steels during tempering (450-550°C) still leaves unclarified the mechanism of the phenomenon of reversible temper brittleness (TB). In this connection, the authors investigated internal friction in five steels with distinct proneness to temper brittleness, by mounting wire specimens (diameter 0.8 mm, length 100 mm) in a relaxation oscillator. Internal friction was measured over a temperature range from room temperature to 600°C at a frequency of 1.1 cps, whereupon isothermal embrittlement was carried out in the oscillator's furnace for 8-12 hr; after cooling to room temperature the internal friction of the embrittled specimens Card 1/3 UDC: 669.011.7

L 12999-66

ACC NR: AP6001684

was determined over the 20-600°C range. A definite correlation yas established between proneness to TB and the variation in internal friction. In the phosphorus-free steel for which tempering at 530°C leads to a rise in the threshold of cold brittleness and intensification of the etchability of boundaries in picric acid, the internal friction background increases, whereas in the phosphorus-containing steels (0.032-0.05% P) the internal friction background decreases: this change may be attributed to the enrichment of grain boundaries with P, an enrichment that is of adsorptional nature. The other alloy elements in the steels (Mn, Ni, Si) do not affect TB: brittleness develops even in pure carbon steel if it contains a sufficient amount of P. On high-temperature tempering (650°C), the grain boundaries are mainly enriched with C, while P then gets distributed uniformly throughout the grain volume. Low-temperature tempering, on the other hand, causes the grain boundaries to be enriched with P, which leads to some decrease in the internal friction background level: this may be associated with the displacement of part of C atoms from the boundary zones into the grain in terior owing to the intensified adsorption of P. The attendant increase in the number of dislocation points leads to a decrease in the internal friction background level. After such tempering the steel assumes a brittle state with enhanced proneness to intergranular fracture, which is associated with the decrease in the surface energy of grain boundaries owing to the adsorption of P and the concomitant facilitation of the formation and development of intercrystalline cracks. Reheating to 650°C again restricts the intercrystalline adsorption of P and increases the concentration of C in

Card 2/3

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

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ACC NR; AP6001684

the solid solution at the grain boundaries. As a result, following rapid cooling, brittleness is eliminated; this, in the authors' opinion, accounts for the well-known fact of the reversibility of TB. Orig. art. has: 1 table and 4 figures.

SUB CODE: 11, 20/ SUBM DATE: 07Jul65/ ORIG REF: 012/ OTH REF: 005

13000-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWA(c) JD/HW ACC NR: AP6001686 SOURCE CODE: UR/0148/65/000/012/0112/0113 AUTHOR: Grdina, Yu. V.; Tarasko, D. I.; Druzhinin, V. V. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut) . TITLE: High-temperature thermomechanical treatment of rail steel SOURCE: IVUZ. Chernaya metallurgiya, no. 12, 1965, 112-113 TOPIC TAGS: rail steel, austenitic steel, theat treatment, cold working, tensile strength, plasticity, laubress, metal gray etucture, februates etychurch metal ABSTRACT: Thermomechanical treatment markedly improves the strength of metal while preserving or even improving its plastic properties. It is most effective for alloy steels with an 0.4-0.5% Content. But industry employs a broad variety of steels containing more than 0.5% C. Hence the authors investigated the possibility of applying high-temperature thermomechanical treatment (HTTMO) to rail steels containing 0.62-0.67% C. Billets measuring 20x30x200 mm were heated in an electric compartment-type furnace and deformed in a two-high rolling mill (one passage) at the rate of 5.7 m/sec and spray-cooled. After tempering at 200 or 400°C they were processed into specimens for tensile and impact tests. Findings: maximum hardness (H = 470-480) and tensile strength ( $\sigma_B$  = 180-190) are obtained in the case of HTIMO with subsequent tempering at 200°C. In certain regimes of HTIMO the area of fracture of the specimens fractured **Card 1/2** 669.14:621.78 UDC:

pined with satistication of the satistication of th	esting machine interior. Apparation of the steel markedly enhance latic of oil-que indings point to to 2 figures.	rently, the h ity and impac following TM s its strengt nched steel a the need of	igh tensile t strength, O. Thus, HT h while pre- nd nearly de-	strenge are at MO can serving	th and har tributable be used t its plast	dness, co to the f to toughen icity at	m- ine-
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EWT(m)/ETC(f)/EPF(n)-2/EWG(m)/T/EWP(t)/EWP(k) IJP(c) JD/HN/JG/WB SOURCE CODE: UR/0148/66/000/002/0119/0121 ACC NR. AP6007928 Grdina, Yu. V.; Tarasko, D. I.; Dadochkin, N. V.; Gordin, O. V. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut) 86 TITLE: Rapid oxidation-free heating of metals for rolling SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1966, 119-121 TOPIC TAGS: steel, refractory metal, molybdenum, tungsten, niobium, steel heating, refractory metal heating, oxidation free heating, metal oxidation, oxidation prevention / 6082 steel, 45G steel, steel 5 ABSTRACT: In a search for an effective and inexpensive method of heating steels and refractory metals for forging, rolling, and extru-/sion, molten glass has been tested as a heating medium. Specimens of steels 60S2; 45G, 5t5, and molybdenum, tungsten, and niobium were heated up to 1100-1350C in molten glass (71.88% Sio2, 1.11% Al203, 1.5% Fe<sub>2</sub>O<sub>3</sub>, 7.32% CaO, 2.27% MgO, 14.15% K<sub>2</sub>O + Na<sub>2</sub>O) for 5 min to 3 hr. No sign of oxidation was observed on any specimen. On the other hand, 60S2 steel conventionally heated to 1150C was extensively oxidized after holding 20 min. This type of steel, badly affected by decarbonization in conventional heating, showed no sign of decarbonization when UDC: 669.046-947 Card 1/2

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ACC NR: AP6005560

SOURCE CODE: UR/0148/65/000/010/0101/0105

AUTHOR: Grdine, Yu. V.; Lykhin, I. D.

ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut)

33

TITLE: Structure of vanadium-carbon alloys

SOURCE: IVUZ. Chernaya metallurgiya, no. 10, 1965, 101-105

TOPIC TAGS: vanadium containing alloy, carbide, ternary alloy, phase composition, chemical composition

ABSTRACT: To fill the gap in the existing knowledge of the phase composition of Fe-V-C ternary alloys, it is primarily necessary to investigate the composition and structure of the carbide phase of the V-C system. So far there has not been much agreement on the chemical composition of the carbides in the V-C system but at any rate it is now generally admitted that two types of carbides form in this system: with hexagonal (V<sub>2</sub>C) and cubic face-centered lattice (VC). But the boundaries of homogeneity of the carbide phases have not previously been conclusively determined. In this connection, the authors investigated alloys made of pure V (99.825%) and spectrally pure graphite. One part of the alloy was investigated in "natural" state while the other was vacuum-annealed (10<sup>-3</sup> mm Hg) in quartz tubes at 1000, 750 and 550°C for 100 hr, with subsequent metallographic and radiographic examination of the

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#### ACC NR: AP6005560

specimens and electrolytic precipitation of the carbide residue. It was thus established that the homogeneous region for the carbide V<sub>2</sub>C with hexagonal lattice extends from 9.6 to 10.45% C (wt.), while for the carbide VC with cubic lattice it extends from 12.5 to 17.8% C (wt.). A comparison of the findings with the conflicting data available in the published literature shows that the lower boundary of stability of the vanadium carbide VC with cubic lattice cannot as yet be conclusively established owing to the diversity of investigating techniques employed by various researchers. On the other hand, the findings on the upper level of concentration of C in the carbides VC, specifying it at from 16.6 to 17.8%, are generally in close agreement. Orig. art. has: 2 figures. 2 tables.

SUB CODE: 11, 13, 20/ SUMM DATE: 09Apr65/ ORIG REF: 004/ OTH REF: 006

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#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00051661

L 24743-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t) IJP(c) JD/JH AP6007927 SOURCE CODE: UR/0148/66/000/002/0115 AUTHORS: Grdina, Yu. V.; Glikman, Ye. E. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut) TITLE: The relation between dislocation blocking by impurities within and on the TITLE: The relation between <u>alsucation</u> broading by any boundaries of crystal grains and the critical temperature of <u>brittleness</u> SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1966, 115-118 TOPIC TAGS: metal test, crystal dislocation phenomena, carbon steel, aluminum, carbon, phosphorus, brittleness, crystal impurity ABSTRACT: This investigation was conducted to study the relationship between impurities dislocations and the critical temperature of brittleness in several low carbon steels. All alloys were deoxidized with 0.1% aluminum? hence the principal blocking impurity was carbon. The specimens were quenched at 650--530C and were subsequently cooled in water. The experimental results are presented in terms of the constant K which is assumed to be a measure of the tension required to unblock a dislocation on the grain boundaries. Here,  $\sigma_n$  is the tension necessary for the removal of a dislocation from the impurity atmosphere, and  $\ell$  is the distance between the grain 669.011.7 Card 1/2

ACC NR: AP6007927

boundary and the nearest dislocation source. The values of Ky were derived from tension curve diagrams by an extrapolation procedure described by S. N. Polyakov and A. S. Kudlay (Izvestiya AN SSSR, Metallurgiya i gornoye delo, 1964, No. 6). The experimental results are presented in graphs and tables. It is concluded that the reversible quenching brittleness is due to enrichment of the grain boundaries by phosphorus, an explanation proposed by Yu. V. Grdina, Ye. E. Glikman, and Yu. V. Piguzov (Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1965, No. 12). Orig. art. has: 1 table, 2 graphs, and 3 equations.

SUB CODE: 11/ SUBM DATE: 25Jul65/ ORIG REF: 005/ OTH REF: 006

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YUGOSLAVIA / Chemical Tochnology. Chemical Products H and Thoir Application. Industrial Organic Synthesis.

Abs Jour: Rof Zhur-Khimiya, No 9, 1959, 32353.

Author : Grdinic, M., Brihta, I.

Inst : Not given.

Title: The Investigation of the Process of Acctone
Derivation from Ethyl Alcohol and Acctylone.

Orig Pub: Kemija u industriji, 1957, 6, No 6, 157-163.

Abstract: It is indiscated that the highest degree of conversion (DC) of C<sub>2</sub>H<sub>5</sub>OH (I), mixed with water vapor (II), into acctone (III) takes place in the presence of the catalyzer (C) ZnO / Fo<sub>2</sub>O<sub>3</sub> (100:6 mols), in comparison with previously studied C (CaCO<sub>3</sub> / Fo<sub>2</sub>O<sub>3</sub> in Fo shavings; Fo<sub>2</sub>O<sub>3</sub>;

Card 1/2

218

#### GRDINIC, M.

A contribution to the knowledge of the reaction products of acidic amides with phosphorus pentachlorides. Bul sc Youg 8 no.3/4:84-85 Je-Ag 63.

1. Institut "R. Boskovic", Zagreb.

GNDINOUA M.

CZECHOSLOVAKIA/Microbiology - General Microbiology.

F-1

Abs Jour

: Ref Zhur - Biologiya, No 7, 1957, 26266

Author

: Kotskova-Kratokhvalova, A., Gebauerova, A., Grdinova, M.

Inst Title

: The Production of Volatile Arsenic Compounds by Fungi.

Orig Pub

: Ceska mykol., 1956, 10. No 2, 77-87

Abst

: It was found that certain fungi (Cladosporium and Trichoderma) will grow in a medium with a high arsenic concentration, without producing volatile compounds, whereas others, for whom arsenic is a poison, produce trimethylarsine (I; the more active fungi are those of the species Scopulariopsis brevicaulis and one strain of Aspergillus fumigatus). I accumulates in mycelium in the form of oxides that are soluble in water with difficulty.

Glucose stimulates the production of I.

Card 1/1

GEYNAL, Ya. [Heinal, J.]; GHDLICHKA, Z. [Hrdlicka, Z.]; VRUBEL', I.

Protective effect of chlortetracycline on the vitality of exanguinated tissues and organs. Antibiotiki 5 no.6:25-30 N-D '60.

(MIRA 14:3)

1. Institut klinicheskoy i eksperimental'noy khirurgii. Praga-Krch. (AUREOMYCIN) (HEMORRHAGE)

IANDA, V.; GRDY, I.; NOVAK, K.; SKUGRAVY, V.

Results of research on cockchafer control in Czechoslovakia [with summary in English]. Zool. zhur. 37 no.3:394-402 Mr '58. (MIRA 11:4)

1. Entomologicheskaya laboratoriya Chekhoslovatskoy AN, Praga. (Czechoslovakia--Cockchafers)

- 1. ORDZELIDZE, A. M., ANANYASHVILI, G. D.
- 2. USSR (600)
- 4. Methane
- 7. Obtaining methane gas for production needs from manure and other organic waste.

  Dost sel'khoz No 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ACCESSION NR: AT4030796

8/0000/63/000/000/0110/0118

AUTHOR: Tavadze, F.N.; Bayramashvili, I.A.; Khantadze, B.V.; Grdzelishvili, V.A.

TITLE: The influence of boron on the surface tension of nickel

SOURCE: AN UkrSSR. Institut metallokeramiki i spetsial ny\*kh splavov. Poverkhnostny\*ye yavleniya v rasplavakh i protsessakh poroshkovoy metallurgii (surface phenomena in liquid metals and processes in powder metallurgy). Kiev, Izd-vo AN UkrSSR, 1963, 110-118

TOPIC TAGS: surface tension, boron, nickel, beryllium oxide, aluminum oxide, nickel based alloy, boron containing alloy, hydrogen, helium

ABSTRACT: The authors investigation was conducted by the lying-drop method on an instrument designed and constructed especially for this purpose. The fundamental diagram of the instrument is presented in a figure. The drop was magnified four times. The surface tension of the metal was determined on a flat support of aluminum oxide and beryllium oxide. Special experiments were performed to study the effect of the materials of the heater and the supports, as well as the medium (hydrogen, helium), on the surface tension of nickel and its alloys with boron. The

Card 1/2

ACCESSION NR: AT4030796

results of the investigation were presented in micro-photographs, tables, and figures. The values of the surface tension of nickel in a hydrogen and helium atmosphere were pratically identical. Boron, an inactive element in relation to nickel, did not effect the value of its surface tension and the grain size. The calculation of the generalized moment and the static generalized moment of nickel and boron atoms confirmed the inactivity of boron in nickel-boron alloy systems. Orig. art. has: 10 figures and 2 tables.

ASSOCIATION: Institut metallurgii AN GruzSSR, Tiflia AN (Georgian SSR)

(Institute of Metallurgy

SUBMITTED: 23Nov63

DATE ACQ: 16Apr64

EMCL: 00

SUB CODE: ML

NO REF SOV: 006

OTHER: 003

Card 2/2

GRDZELOV, L.I.

Prospects for finding oil and gas in the Adriatic geosyncline. Sov.geol. 5 no.1:160-164 Ja \*62. (MIRA 15:2)

Ministerstvo geologii i okhrany nedr SSSR.
 (Adriatic Sea region—Petroleum geology)
 (Adriatic Sea region—Gas, Natural—Geology)

POGOSYAN, S.A.; GRDZELYAN, G.P., otvetstvennyy redaktor; TATEVOSYAN, S.A. redaktor izdatel stva; KAPIANYAN, M.A., tekhnicheskiy redaktor

[The nature of seed bearers of old varieties of ungrafted grapevines and their hybrids] O prirode semennykh rastenii starodavnikh sortov kornesobstvennogo vinograda i ikh gibridov. Erevan, Izd-vo Akademii nauk Armianskoi SSR, 1955. 197 p. (MIRA 9:9) (Grapes)

GRUZELYAN, G.P.

VERMISHYAN, A.M.; kand.sel!skokhos.nauk; DILANYAN; G.Kh.; SANAGYAN, M.B.; KAZARYAN, Ye.S., kand.sel'skokhos.nauk, otv.red.; ARARATYAN, A.G., saslush.doyatel' nauki, red.; GRDZELYAN, G.P., dotsent, red.; POGOSYAN, S.A., doktor biolog.nauk; DALIYELYAN, G., red.izd-va; KUZANYAN, M., red.izd-va; KHACHATRYAN, S., tekhn.red.

[Fruits of Armenia] Plody Armenii. Erevan, Armianskoe gos.isd-vo. Vel.1. [Stone fruit; local varieties] Kostochkovye porody; mestnye sorta. 1958. 243 p. (MIRA 12:7)

(Armenia--Fruit)

GRDZELYAN, P.A.: KARAPETYAN, M.M.: STEPANYAN, N.P.: TOROSYAN, A.S.

Features in calculating yearly losses of electric energy to the corona of mountain transmission lines. Izv.AN Arm.SSR. Ser.tekh.nauk 12 no.6:3-14 59. (MIRA 13:6)

1. Institut elektrotekhniki AN Armyanskoy SSR.
(Electric lines) (Corona (Electricity))

GRDZBLYAN, R.A.; DZHANDZHUGAZOV, N.G.; KARAPETYAN, M.M.; TOROSYAN, A.S.

Measuring circuits for investigating power losses in corona discharges. Izv.AN Arm.SSR. Ser.tekh.nauk 10 no.1:19-29 '57.

(NIRA 10:10)

1. Laboratoriya elektrotekhniki AN Armyanskoy SSR.

(Electronic measurements) (Corona (Electricity))

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051661

GRDZELYAN, R.; SOKHAKYAN, R.

Transfer of 110 kv. electric power transmission lines to 154 kv. Prom.Arm. 5 no.8:49-54 Ag '62. (MIRA 15:8)

ACCESSION NR: AP4947857

AUTHOR: Frantiu, I. (Engineer); Laiu, N. (Engineer); Greavu, N. (Engineer)

TITLE: Experiments on the cladding of carbon steel plates with stainless steel

SOURCE: Metalurgia, no. 9, 1964, 381-386

TOPIC TAGS: stainless steel, carbon steel, steel plate, steel cladding, compound ingot, electroslag melting

ABSTRACT: This article describes some aspects and variations of the K.M.K.

Cladding process, used primarily in the Soviet Union and based on the hot rolling of compound ingots. The purpose of the investigation was to enterly the content of the

ABSTRACT: This article describes some aspects and variations of the K.M.K. cladding process, used primarily in the Soviet Union and based on the hot rolling conditions for this procedure, using the existing Rumanian installations which up to the time of publication - did not correspond to modern requirements. The results obtained during the year 1963 are reported in this paper. In the compound ingot procedure, the basic carbon steel is first forged. A package formed by two stainless steel plates, necessary for the cladding, are then introduced into its center. The two plates are kept together by welding their edges and are separated by an inert layer deposited between them. A schematic diagram of the ingot mold is given. The compound ingot thus obtained is passed through the rolling mill, under normal conditions, until twice the thickness of the intended

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ACCESSION NR: AP4047857

final product is achieved. This results in a package formed by two strips or plates, with their edges welded all around. The welded edges are cut, and the two sheets are detached at the level of the separation layer. In this manner, each ingot results in 2 sheets or plates of carbon steel, clad on one side with stainless steel. However, these trials, carried out according to the specifications of the K.M.K. method, did not give the expected results. Two modified trials carried out with two series of seven ingots weighing approximately 800 kg each, and 4 ingots of over 2000 kg each, respectively, are described in detail and 3 schematic diagrams are given. These methods brought about the establishment of a good separation layer. A formula for calculating the cladding coefficient (Ki) is given. A Ki of over 100 is needed for a perfectly successful result. The Ki in the various methods used for the processing of the 800-kg ingots varied from ~ 30 to 60-100. The results obtained with the 2000-kg ingots were less satisfactory. In both cases, the specific quantity (g/m2) to be deposited on the surfaces was a function of the type of the inert materials and the size of the cladded surface, besides depending on the welding obtained during rolling. The procedure of electroslag melting involves the deposition, on a carbon steel brick, of a stainless steel layer obtained by the automatic melting of steel electrodes in a slag bath. The bath of molten metal is then used for the formation of an alloy, through the addition of alloying elements in granulated form. The steps of this procedure are described in detail, and several diagrams are given. Card 2/3 . State of the second transfer serve has

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ACCESSION NR: AP4047857

36

This procedure makes possible the rolling of a 20 mm thick compound brick, and its cladding up to a proportion of 15%, without any special difficulties. However, it also necessitates important modifications. Finally, the authors comment on the advantages and disadvantages of each method. "The following persons collaborated in these experiments: Eng. A. Ieremia and Eng. I. Toma of the Combinatul siderurgic Resita (Resita Steel Works), T. Petrescu of I.C.T.C.M. Eng. G. Avram of the Uzina "Republica" ("Republic" Plant) in Bucharest, and Eng. C. Savici and S. Torga of the Uzina de tabla (Sheet Metal Works) in Galati."

Orig. art. has: 12 figures and 2 formulas.

ASSOCIATION: Frantiu, Laiu Institutul de cercetari metalurgice (Institute of Metallurgical Research); Greavu Institutul de cercetari tehnologice pentru constructii de masini (Institute for Technological Research on Machine Building)

SUBMITTED: 00

ENGL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 002

3/3

GREAVU, V., ing.; FREDA, Gh., ing.

Possibilities of using radioactive isotopes in the textile industry. Ind text Rum 12 no.6:225-226 Je \*61.

GREBCHUK, M.P.

DERYUGIN, P.S., mostovoy master (st. Ulan-Yde); RUKSHA, G.P.; FILATENKO, O.S., brigadir puti (st. Chad Kazanskoy dorogi); GREBCHUK, M.P., dorozhnyy master (st. Korosten'); ROSHOVSKIY, G.F. (st. Krasne L'vovskoy dorogi); ROSHOVSKIY, G.F. (st. Krasne L'vovskoy dorogi); KONDRASHOV, A.I., brigadir puti (st. Gryazi-Voronezhskiy Yugo-Vostochnoy dorogi).

Letters to the editor. Put' i put. khoz. no.2:38-39 F '59. (MIRA 12:3)

1. Nachal'nik otdela puti i sooruzheniy g. Leningrad (for Ruksha).
2. Zamestitel' nauchal'nika distantsii puti (st. Krasne L'vovskoy dorogi (for Rosnovskiy).

(Ráilroads--Track)

KLARE, C.[Klare, H.]; CREBE, A.[Grobe, A.]; MARON, R.; MANN, G.; YAOST, Kh.[Jost, H.]; KASPERSON, G.[Casperson, G.]

Formation of fiber from modified and nonmodified viscose in precipitation baths containing zinc sulfate. 16th Report on the formation mechanism of viscose monofilaments. Khim. volok. no.6:14-21 '62. (MIRA 16:1)

1. Nauchno-issledovatel skiy institut khimicheskikh volokon AN, Berlin, Teltov-Zeyekhev, Germanskaya Demokraticheskaya Respublika.

(Viscose) (Textile fibers, Synthetic)

GREBE, A., doktor nauk; REYNISH, G., doktor nauk; TSIMMERMAN, G., doktor nauk; GREBE, F., doktor nauk; UL'BRIKHT, I., doktor nauk; SHIFFNER, R., doktor nauk; FILIPP, B., doktor nauk; RUSHER, Kh., doktor nauk; GASPERSON, G., doktor nauk; KLARE, G., doktor nauk; YAKOPYAN, V.

Search and solutions; important research of the German Democratic Republic chemists. Priroda 54 no.6:83-88 Je '65.

(MIRA 18:6)

1. Institut izucheniya volokna Germanskoy Akademii nauk v Berline,

g. Tel'tov, Germanskaya Demokraticheskaya Respublika.

### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051661

GREBE, A., doktor nauk; REYNISH, G., doktor nauk; TSIMMERMAN, G., doktor nauk; GREBE, F., doktor nauk; UL'BRIKHT, I., doktor nauk; SHIFFNER, R., doktor nauk; FILIPP, B., doktor nauk; RUSHER, Kh., doktor nauk; GASPERSON, G., doktor nauk; KLARE, G., doktor nauk; YAKOPYAN, V.

Search and solutions; important research of the German Democratic Republic chemists. Priroda 54 no.6:83-88 Je '65.

1. Institut izucheniya volokna Germanskoy Akademii nauk v Berline,

g. Tel'tov, Germanskaya Demokraticheskaya Respublika.

GREBECKI, A.; KINASTOMSKI, W.; KUZNICKI, L.

Some observations on the ecology of larvae of Molanna angustata (Curtis) and their distribution in an environment.

p. 191 Vol. 2, no. 1, 1954 POLSKIE ARCHIWUM HYDROBIOLOGII Warszawa

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

GREBECKI, A.

Response of larve of Molamma angustata Curt. to light. p. 95.

Vol. 3, no. 2, 1955 Warszawa

FOLIA BIOLOGICA

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

GREBECKI, A.; KINASTOWSKI, W.; KUZNICKI, L.

So-called peripheral reaction of Paramecium caudatum. Fol.biol.

Warez. 3 no.2:117-125 1955.

 Zaklad Biologii Ogolnej Instytutu im. M. Menckiego PAN. Kierownik: Pref. Dr. J. Dembowski.

(CILIATA,

Paramecium caudatum, affinity to peripheral spaces
in closed areas)

(BEHAVIOR,
affinity of animals including Paramecium caudatum
to peripheral spaces in closed areas)

GREBECKI, A.; KUZNICKI, L.

Relation between Paramecium candatum and the chemism of the enviorment and a protective reaction of a group against inorganic substances. p. 127, Vol. 3, no. 2, 1955 Warszawa

FOLIA BIOLOGICA

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

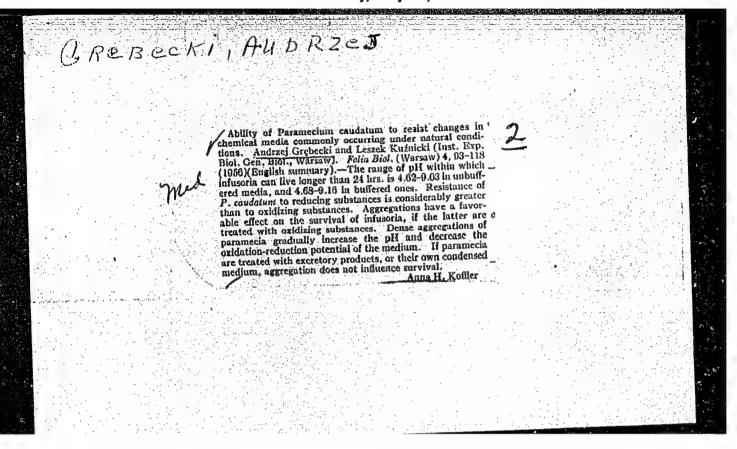
GREBECKI, A.; KUZNICKI A.

FOLIA BIOLOGICA

Investigations on protective reaction of individual and aggreate In fusoria in solutions of organic substance. p. 159. Vol. 3, no. 2, 1955 Warszawa

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956



### GREBECKI, A.

Experimental studies on the selection and adaptability in Paramecium caudatum. Acta biol exper 21:35-52 161.

1. Department of Biology, Nencki Institute of Experimental Biology, Warsaw.

(CILIATA)

### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051661

GREBECKI, A.; KUZNICKI, L.

Immobilization of Paramecium caudatum in the chloralhydrate solutions. Bul Ac Pol Biol 9 no.11:459-462 '61.

1. Department of General Biology, M.Nencki Institute of Experimental Biology, Polish Academy of Science. Presented by J.Dem. bowski.

### GREBECKI. A.

Adsorption of fluorochrones by the Ciliata cytostome. Bul Ac Pol biol 10 no.11:483-485 '62.

1. Zaklad Biologii Ogolnej, Instytut Biologii Doswiadczalnej im. N.Nenckiego, Polska Akademia Nauk, Warszawa. Presented by J.Dembowski.

### GREBECKI, Andrzej

Selected problems of the electrophysiology of motion and absorption in protozoans; electric properties of the protozoan cell. Kosmos biol 13 no.2:105-123 \*64

s/135/60/000/005/001/009 A115/A029

Kushnerev, D.M., Candidate of Technical Sciences; Grebel'nik, M.P., AUTHORS:

Engineer

Ceramic Flux for Automatic Welding of 1X18H9T (1Kh18N9T) Stainless TITLE:

Steel

Svarochnoye proizvodstvo, 1960, No. 5, pp. 1 - 4 PERIODICAL:

TEXT: The purpose of this study was to find out a ceramic flux which would secure resistance of weldments to intercrystallite after-welding corrosion; I high quality of weldments was sought with d-c or a-c applied, and finally, the possibility of application of standardized Co-1X18H9T (Sv-1Kh18N9T) wire. The indispensable requirement for the composition of a ceramic flux for welding highalloyed austenite steel is a minimum of oxidizing elements in the melting pool; this is the only way to obtain high concentrations of chromium and titanium in the seam. In this respect, the most suitable fluxes are composed on fluorine basis. The disadvantage of these fluxes is their low stabilizing capacity suitable for welding with d-c only. The fused metal is slightly oxidized by welding with flux made of CaO, MgO, Al203, T102. CaO and MgO should be preferred since

Card 1/3

S/135/60/000/005/001/009 A115/A029

Ceramic Flux for Automatic Welding of 1X18H9T (1Kh18N9I) Stainless Steel

lime slags reduce the content of sulfur. In the case of marble, during welding calcium oxide is generated, affecting the health of the welder; attempts to avoid this obstacle failed. Calcination of marble with SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> does not eliminate hydration. Nevertheless, the use of marble electrodes secures high quality seams in weldments of chrome-nickel steels; therefore, many compositions of ceramic flux have been tried out and the following found most suitable for welding steel 1Kh18N9T: marble 57 - 60%, magnesite brick 9 - 10%, alumina 4 - 54 welding steel 1Kh18N9T: marble 57 - 60%, magnesite brick 9 - 10%, alumina 4 - 54 welding steel 1Kh18N9T: marble 57 - 60%, magnesite brick 9 - 10%, alumina 4 - 54 to the flux ferro-silicon. K-8 (K-8) flux is composed as follows: 54 - 58% GaCO<sub>3</sub>, 8.5 - 11% MgO, 14 - 15% TiO<sub>2</sub>, 4.5 - 5% Al<sub>2</sub>O<sub>3</sub>, 5.0 - 6% CaF<sub>2</sub>, 4.0 - 5.0% GaCO<sub>3</sub>, 8.5 - 11% MgO, 14 - 15% TiO<sub>2</sub>, 4.5 - 5% Al<sub>2</sub>O<sub>3</sub>, 5.0 - 6% CaF<sub>2</sub>, 4.0 - 5.0% SiO<sub>2</sub>, 1.5 - 2.0% Na<sub>2</sub>O<sub>3</sub>, 3.6 - 3.9% Si, 1.1 - 1.4% Fe, 0.1% S and P. This ceramic flux secures good seams, easy removal of slag crust (Fig. 1) and high resistance against pores and blisters. When welding steel 1Kh18N9T under K-8 flux with Sv-1Kh18N9T and 3M606 (EI606) wires (Table 3), the metal of the seam has two-phase austenite-ferrite structure with only 3 - 5% of ferrite (Fig. 2). The mechanical characteristics of the seam are not inferior to those of the basic metal (Fig. 4). Exposure for a prolonged time to 750°C did not affect the toughness of the welded seam (Table 5). Ceramic flux K-8 has found widespread appliances of the welded seam (Table 5).

# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051661

S/135/60/000/005/001/009 A115/A029

Ceramic Flux for Automatic Welding of 1X18H9T (1Kh18N9T) Stainless Steel

cation in machinery and chemical industries. There are 3 figures, 6 tables and

ASSOCIATION: Institut Electrotekhniki Akademii Nauk Ukrainskoy SSR (Electrotechnical Institute of the AS Ukr SSR)

Card 3/3

#### ACC NR: AP7004195

alloy Sv-06Kh19N9T filler wire under ceramic flux No. 5 (60% marble, 20% fluorspar, 15% rutile concentrate, 3% ferrosilicon, 2% ferrotitanium TiO), the desired chemical composition of the weld metal can be obtained over a wide range of welding conditions. The second method of alloying the weld metal was also 50% cheaper than the first. In automatic welding of high-alloy stainless steels under ceramic flux, it is advisable to use a standard high-alloy filler wire, and the alloying with flux only for additional alloying and deoxidation of the molten metal bath. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11,13/ SUBM DATE: 24Sep65/ ORIG REF: 003

Card 2/2

GREBEL'NIK, F. G.

Avtomaticheskaia svarka pod slcem fliusa; opyt Gor'kovskogo avtozavoda im. Molotva. Gor'kii, Oblizdat, 1947. 136 p.

Automatic flux welding method; practice of the Gorky Molotov automobile plant.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

CREBEL'HIK, P. G.

Crebel'nik, P. G. "On the course of introducing automatic welding into industry in the light of the decision of the Council of Fisisters, USSR, of 9 June 1947", Trudy Vsesoyuz. konf-tsii po avtomat. svarke pod flyusom, 3-6 October 1947, Kiev, 1948, p. 11-17.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

BORT, M.M., kandidat tekhnicheskikh nauk; BYALOTSKIY, L.A., assistant; VASIL'YEV, G.V., assistent; GAPCHENKO, M.N., kandidat tekhnicheskikh nauk; GHEBEL'HIK, P.G., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; TRUCHUN, I.P., kandidat tekhnicheskikh nauk; SERDYUK, V.K., vedushchiy redaktor; inshener; RUDENSKIY, Ya.V., tekhnicheskiy redaktor.

[Electric welder's reference book] Spravochnik elektrosvarshchika. Isd. 2-e, perer. Kiev, Gos. nauchno-tekhn. isd-vo mashinostroit. lit-ry, 1954. 515 p. [Microfilm] (MLRA 8:1) (Electric welding)

KHRENOV, Konstantin Konstantinovich; GREBEL NIK, P.G., kand.tekhn.nauk, retsenzent; FURER, P.Ya., red.; RUDENSKIY, Ya.V., tekhn.red.

[Welding, cutting, and soldering of metals] Svarka, reska i paika metallov. Izd.2., perer. i dop. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1955. #11 p. (MIRA 12:8) (Welding) (Metal cutting)

### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051661

GREBEL'NIK, TE.

RYABOKON', Nikolay Gavrilovich; GAL'CHINSKIY, Leonid Viktorovich; GREBEL'NIK,
P.G., kand.tekhn.nauk, retsenzent; LYSENKO, F.K., red.; SOROKA, N.S.,
red.izdatel'stva.

[Arc welder's manual] Uchebnik elektrosvarshchika. Kiev, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 154 p. (MIRA 10:12)
(Electric welding)

## PHASE I BOOK EXPLOITATION SOV/3947

- Elektroshlakovaya svarka (Electroslag Welding) 2d ed., rev. and enl.
  Moscow, Mashgiz, 1959. 406 p. Errata slip inserted. 6,500 copies printed.
- Reviewer: I.I. Zaruba, Candidate of Technical Sciences; Ed. (title page):
  B.Ye. Paton, Laureate of the Lenin Prize, Academician, Academy of Sciences USSR;
  Eds. (inside book): P.G. Grebel'nik, Candidate of Technical Sciences, and G.D.
  Tynyanyy; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.
- PURPOSE: This book is intended for technical personnel studying the electroslagwelding process.
- COVERAGE: The book contains information on the essentials, characteristic features, and advantages of electrosiag welding. Thermal and metallurgical characteristics of the processes of electrosiag welding and surfacing of steels and other metals are described. Also described are constructions of welding equipment and sutcontice control systems for electrosiag welding. The following persons participated in writing the book: Candidates of Technical Sciences G.Z. Voloshkevich, S.A. Ostrovskaya, D.A. Dudko, I.K. Pokhodnya, Yu. A. Sterenbogen, G.V. Zhemchushnikov, P.I. Sevbo, B.I. Medovar, and D.M. Rabkin; Engineers I.N. Rublevskiy,

and I.V. Novikov a a n		
Paton, Academician, Doctor of Technical Sciences, Laureate of the There are 92 references: 86 Soviet, 5 Garmen	ous; and B.Ye.	
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2. Classification of the types of electrosiag welding 3. Characteristic features of the electrosiag welding 4. Fields of the electrosia welding	7	· ·
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### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051661

PATON, B. Ye., akademik, doktor tekhn.nauk, laureat Leninskoy premii;
VOLOSHKEVICH, G.Z., kand.tekhn.nauk, laureat Leninskoy premii;
OSTROVSKAYA, S.A., kand.tekhn.nauk; DUDKO, D.A., kand.tekhn.nauk;
POKHODNYA, I.K., kand.tekhn.nauk; STERENBOGEN, Yu.A., kand.tekhn.
nauk; RUHLEVSKIY, I.N., inzh.; ZHEMCHUZHNIKOV, G.V., kand.tekhn.
nauk; ROZENBERG, O.O., inzh.; SEVBO, P.I., kand.tekhn.nauk; NOVIKOV,
I.V., inzh.; MEDOVAR, B.I., kand.tekhn.nauk; DIDKOVSKIY, V.P., inzh.;
RABKIN, D.M., kand.tekhn.nauk; TYAGUN-BELOUS, G.S., inzh.; ZARUBA,
I.I., kand.tekhn.nauk, retsenzent; GREBEL NIK, P.G., kand.tekhn.nauk,
red.; TYNYANYY, G.D., red.

[Electric slag welding] Elektroshlakovaia avarka. Izd.2., ispr. 1 dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. 1959.
409 p. (MIRA 13:4)

1. AN USSR (for Paton).
(Blectric welding)

### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA

CIA-RDP86-00513R00051661

BORT, M.M., kand.tekhn.nauk; BYALOTSKIY, L.A., inzh.; VASIL'YEV, G.V., inzh.; VOSHCHANOV, K.P., inzh.; GAPCHENKO, M.N., kand.tekhn.nauk; GORPENYUK, N.A., kand.tekhn.nauk; GREBEL'NIK, P.G., kand.tekhn.nauk; DYATLOV, V.I., kand.tekhn.nauk; TROCHUN, I.P., kand.tekhn.nauk; KHRENOV, K.K., akademik; SOROKA, M.S., red.

[Electric welder's handbook] Spravochnik elektrosvarshchika. Izd.3., perer. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 748 p. (MIRA 14:6)

1. AN USSR (for Khrenov).
(Electric welding)

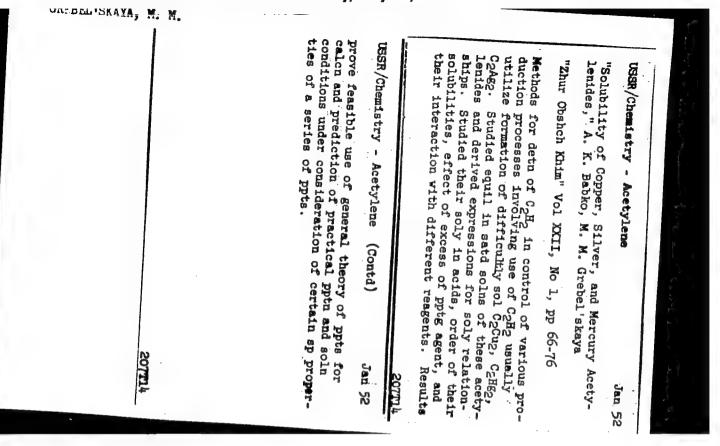
GREBEL'SKAYA. E.S., kandidat meditsinskikh nauk

Psychological preventive functions of a physician in the school. Pediatriia no.4:61-66 Jl-Ag '54. (MIRA 7:10)

1. Is detakoy psikhiatricheskoy kliniki Instituta psikhiatrii Ministeratva zdravookhraneniya RSFSR (rukovoditel' kliniki prof. G.E.Sukhareva)

(SCHOOLS.

med. serv. in Russia, psychol. & prev. funct.)



APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051661(

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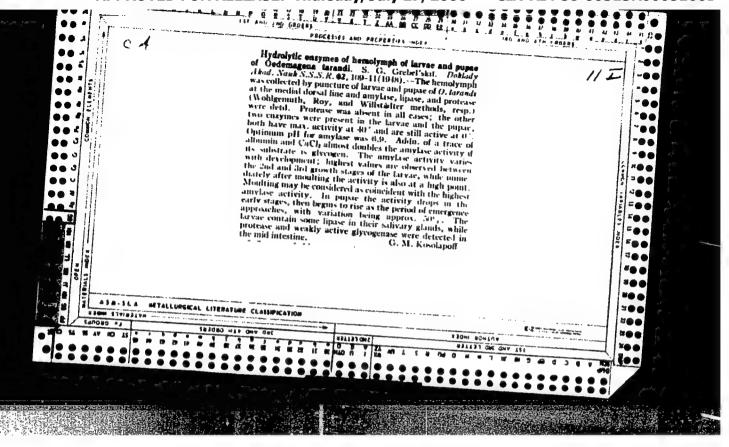
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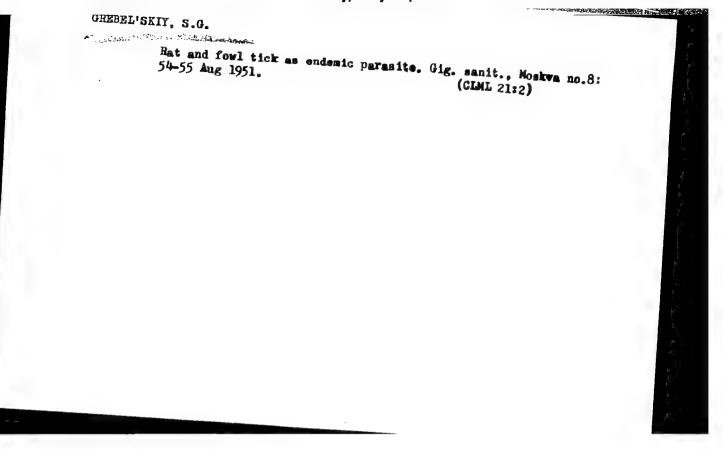
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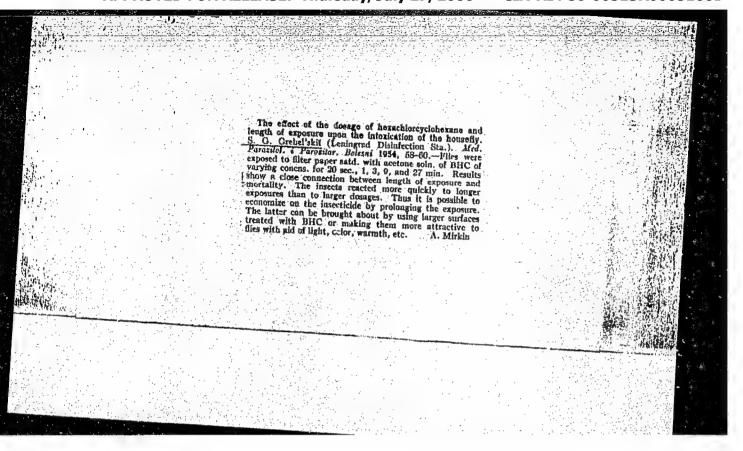




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